# **POOR LEGIBILITY**

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ DUE TO THE QUALITY OF THE ORIGINAL

G:\SCANNING DEPT\Forms etc\Target Sheets\Poor Legibility Target.doc



# The Dow Chemical Company

2030 Dow Center March 6, 1992 Midland, Michigan 48674

SFUND RECORDS CTR 0639-02432

Mr. Thomas J. Dunkelman (H-7-1)
Project Manager
U. S. Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, California 94105

Made

REQUEST FOR INFORMATION DEL AMO SITE - LOS ANGELES, CA

Dear Mr. Dunkelman:

This response is submitted on behalf of The Dow Chemical Company ("Dow") to the United States Environmental Protection Agency's ("EPA") CERCLA Section 104(e) Request for Information about pipelines operated by Dow in the vicinity of the Del Amo site. Documents responsive to the request are attached.

Dow's response was prepared with the assistance of E. L. Ruddick of the Engineering Department of Dow's Long Beach Terminal and R. B. Allen of Dow's Hydrocarbons Department in Houston, Texas. W. J. Witt, CERCLA Operations Manager of Dow Chemical USA was also consulted in the preparation of this response. The questionnaire provided by EPA as Attachment B to the Information Request and responses thereto are submitted as Attachment A to this letter.

Please do not hesitate to contact me if you have any questions about our response. Again, we thank you for giving us an extension of time within which to respond until Monday, March 9, 1992.

Very truly yours,

Sydney Rooks

Senior Attorney

517-636-8098

lbr/SR.652

### **ATTACHMENT A**

- 1. Identify all pipelines and product transmission lines owned or operated by your company either currently or at some time in the past within a one-mile radius of the Del Amo site. This should include all pipelines identified on p. 68 and p. 69 of the most recent Los Angeles Thomas Brothers map book. For each pipeline identified, provide the following information:
  - a. Location of the pipeline (identify verbally and on a map);

## **Answer**

The pipeline in question runs from Dow's Long Beach Terminal to Dow's Torrance Plant. The pipeline's location is depicted on "Map 1" which is attached to this response. The Del Amo site is depicted on "Map 1" with cross-hatching. The pipeline runs through a corridor on the south side of the Del Amo site.

b. Size of the pipeline;

#### Answer

The size of the pipeline varies from three inches to four inches. It is four inches in diameter at the Del Amo site.

c. Date of construction of the pipeline;

#### Answer

The pipeline was purchased from Mobil Oil in 1973. Mobil identified the pipeline as "LM136." Upon information and belief, the pipeline was installed by Mobil between 1947 and 1950.

d. Type of materials transported through the pipeline (include a list of all materials, approximate volumes of all materials transported through the pipeline, approximate dates of transport of each material identified);

#### Answer

Since its purchase in 1973, Dow has transported only styrene through the pipeline. Dow does not know what materials were transported by Mobil in the pipeline prior to 1973.

#### ATTACHMENT A

e. Thorough discussion of the pipeline construction;

#### Answer

The pipeline is constructed of carbon steel of an estimated wall thickness of 0.25 inches. The pipeline has an exterior coating of coal tar. It is cathodically protected via impressed current.

f. Results of all pressure tests conducted on the pipeline to date;

### **Answer**

Pressure test data reports for the years 1988 to 1991 are attached. Dow's records search for test data pertaining to earlier years is continuing. Should additional responsive documents be found, Dow reserves the right to seasonably submit a supplemental response and submit those documents to EPA.

g. Indicate whether the pipeline is an interstate or intrastate pipeline.

#### Answer

The California State Fire Marshall has identified this pipeline as an intrastate pipeline pursuant to CSFM No. 072, CSFM Inspection Unit No. 130.

h. Indicate and describe fully whether any other parties have been allowed to lease or otherwise use the pipeline.

#### Answer

Dow has not leased the pipeline to any party since purchasing the pipeline in 1973 nor has the pipeline been used by any other party since that date.

- 2. Provide a complete discussion of any suspected leaks or discharges that have occurred from any pipelines identified above. In your discussion, describe the following:
  - a. cause of the leak or discharge;
  - b. date of the leak or discharge;

### **ATTACHMENT A**

- c. types and volumes of material that leaked or were discharged;
- d. actions taken to stop the leak or discharge;
- e. actions taken to remediate soil or groundwater contaminated by the leak or discharge.

#### Answer a.-e.

No releases have been recorded since 1973 in a one-mile radius of the Del Amo site. Three releases occurred at a location more than one mile west of the site between February 13, 1985, and February 15, 1986. Dow estimated that less than one barrel of styrene was released during each occurrence.

On or about February 13, 1985, a minor release from the pipeline occurred in an area more than one mile west of the Del Amo site, between Arlington Avenue and Amapola Avenue, due to a pinhole leak with occurred during construction in the area. In response, Dow conducted a removal of the styrene and associated soils and repaired the pipeline. The styrene which was released was confined to the upper two to three feet of soil below grade in the area of occurrence.

On or about July 18, 1985, a similar release was detected in the same location. Again, styrene was confined to the upper two to three feet of soil below grade. Dow repeated a removal action and repaired the pipeline.

On or about February 15, 1986, a third release was detected at the location in question. As before, a small quantity of styrene was confined to the upper two to three feet of soil below grade. Dow conducted a removal of the styrene and associated soil and, in April 1986, replaced the section of the pipeline involved.

The site of these three releases is identified on "Map 2" which is attached to this response.

These incidents are described in documents filed with the California State Fire Marshall in 1991 and which are attached to this response. Upon information and belief, the releases were caused during construction by Mobil at an adjoining facility. Dow is unaware of any groundwater contamination caused by the releases.

### ATTACHMENT A

3. Are you aware of any pipelines, owned or operated by your company, that may have leaked, discharged, or otherwise contributed to soil or groundwater contamination in the vicinity of the Del Amo site. If so, describe fully.

### **Answer**

No.

4. Provide a detailed discussion of the ability of your company to detect leaks or discharges from the pipelines identified above. Include in your response an estimation of the maximum volume of material that could leak or be discharged from the above identified pipelines without being detected or noticed. Include in your discussion any changes or improvements in your leak detection capabilities during the period of your operation of this pipeline.

### Answer

The pipeline is tested annually at 800 psi for 8 hours and visually inspected. The line is then held at this test pressure for an additional 16 hours for a total of 24 hours of testing. Visual inspection of the line is carried out in accordance with the California Pipeline Safety Act of 1981, as amended, January 1, 1990, which requires such inspections 26 times per year at a maximum three-week interval.

The pipeline's input and output are continuously metered and monitored by computer. Normal flow rate is approximately 35,000 pounds per hour (approximately 70 GPM). Upon the detection of a deviation of more than 500 pounds per hour for a period of one minute between the inlet meter and the outlet meter, an alarm is automatically sounded by the monitoring computer. The computer-controlled system has been operational since approximately 1987. Between 1973 and 1987, a monthly reconciliation between tank output at the source at the Long Beach Terminal and tank input at the Torrance plant was performed.

5. Provide a detailed discussion of the ability of your company to detect and quantify leaks or discharges from a particular segment of a pipeline as compared the ability to detect such leaks or discharges over a significant length of pipeline.

### **ATTACHMENT A**

**Answer** 

Same as No. 4 above.

6. Are you aware of any pipeline, owned or operated by other companies, that may have leaked, discharged, or otherwise contributed to soil or groundwater contamination in the vicinity of the Del Amo site. If so, describe fully.

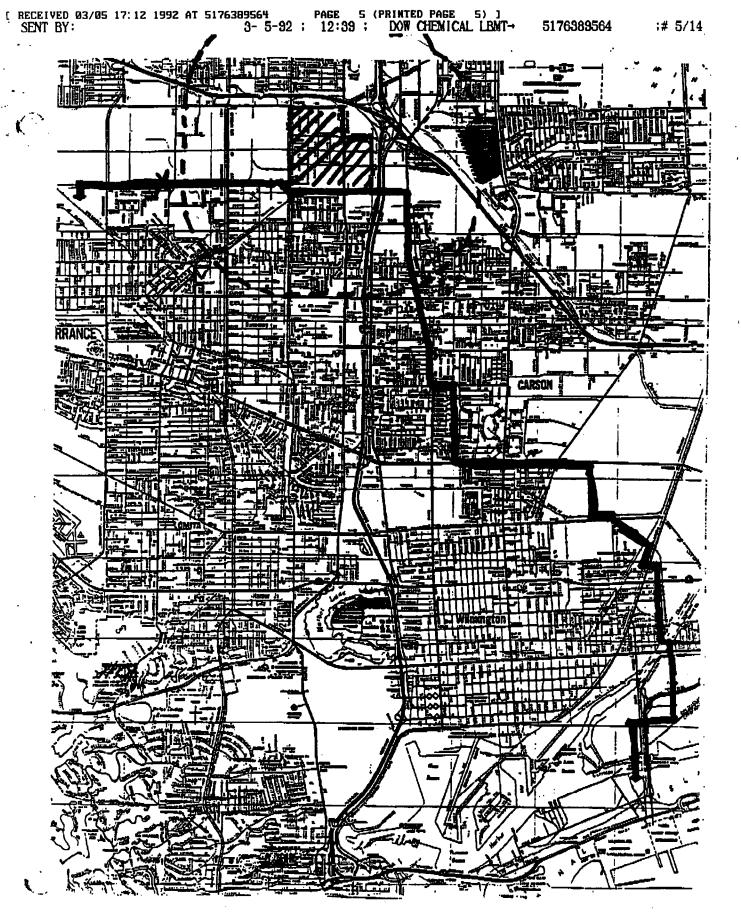
Answer

No.

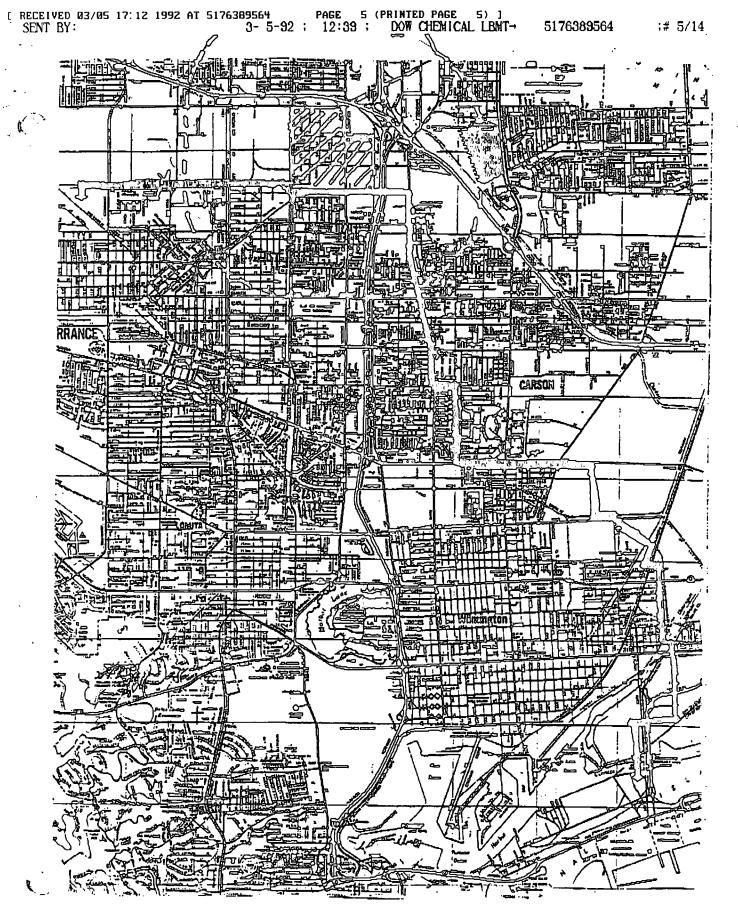
7. Are you aware of any other companies, other than those identified in this letter, which own or operate pipelines or have owned or operated pipelines in the past in the vicinity of the Del Amo site.

Answer

No.



MAP 1



MAP 1

5176389564

;#13/14

# OFFICE OF STATE FIRE MARSHAL LIQUID PIPELINE SAFETY DIVISION HYDROSTATIC TEST RESULTS

PIPELINE DATA	Test Date 3/16/88
Pipeline Operator  DOW CHEMICAL U.S.A.  Company conducting test if other than operator	
Kind of Test [] New [] Replacement [X] Annua	1   ] 3 Year   ] 5 Year   ] Other
Pipeline Identification (line number, name Styrene line	, etc)
Pipeline Location (mile post, street, stat	- 305 Henry Ford Ave. Temrinal Island
Normal Product Transported Styrene	Normal Operating Pressure P.S.I. at (location) 230 psi
Maximum Operating pressure P.S.I. at (location) 280 psi	

## PIPE DATA

Pipe O.D.	Wall Thickness	. Specification & Grade (SMYS)	Length of Pipe Being Tested	Volume (Barrels)
211	250	Grade B Seamless		
4"	.250	Grade B Seamless	11.54 total mi	les 1,467

## TEST DATA

Test Medium	[XX] Water [ ] Petroleum	Has Waiver been granted ?	
Location of	Pressure Recording Equipment Beach Marine Terminal		Elevation O
Other PipelineHigh Point Elevations Torrance Plant 70*		PipelineLow Point  Marine Temripal O	
Test Equipment	Make & Model of Deadweight Tester	Serial #	pate Last Calibrated
	Make & Model of Chart Recorder Barton	Serial # 05-238-903	Date Last Calibrated 3/14/88
	Make & Model of Temperature - Recorder Barton	Serial # 82297	Date Last Calibrated 3/14/88

5176389564

;#14/14

٠,,,

17.5

# TEST DATA

Date	Time	Pressure Recorded by [] DWT	Temperature Source of Readings XX Pipe Wall    Air    Test Medium    Other	Test Medium Change (+) Added (-) Drained
3/16/88	8:00AM	800	58°	
	9:00	800 ·	62°	
	10:00	800	68°	
	11:00	801	70°	1
	12:00	801	72°	·
	1:00PM	802	74°	
	2:00	802	74"	
	3:00 4:00	802 802	74° 74°	
			Total Change of Test Hedium	Ø

### FAILLIRES DURING TEST

PARTINES DUNING 1231					
Location	Cause	Disposition			
None					
		,			

# CERTIFICATION

Pipeline Operator's Representative Tom Pejovich, Dow Chemical	Title Maintenance Mgr.	3/16/88
Hydrostatic Testing Pirm's Representative	Title	Date
Person Witnessing Test for Certifying Firm Robert Lygero. Merco Equipment Incc	Title Cert, Witness	Date 3/16/88
Test Data Cortified By	V.P. Const.	3-21-88

NOTE: Test results must be sent to the Office of State Fire Marshal within 30 days of the hydrostatic test.

B-1-1987

# LIQUID PIPELINE SAFETY DIVISION HYDROSTATIC TEST RESULTS

PIPELINE DATA	Test Date 04-11-89
Pipeline Operator	Company conducting test if
Dow Chemical U.S.A.	
Kind of Test [ ] Replacement [ ]	Annual [] 3 Year [] 5 Year [] Other
Pipeline Identification (line number, Styrene Line	name, etc)
From: Long Beach Terminal, Terminal To: Torrance Plant, Torrance	station, etc)
Normal Product Transported Styrene	Normal Operating Pressure P.S.I. at (location) 230 PSI
Maximum Operating pressure	Test 800#

### PIPE DATA

Pipe 0.D.	Wall Thickness	Specification 4 Grade (SMYS)	Length of Pipe Being Tested	Volume (Harrel#)
3"	.250	Grande B Seamless		
411	25	Grande B Seamless	11_54 Total Miles	

## TEST DATA

Test Medium	[ Water [ ] Petroleum	Nas Waiver been granted ?		
Location of Lo	Pressure Recording Equipment ng Beach Terminal		Elevation 0	
Other Elevations	PipelineHigh Point Torrance Plant 70 ft.	Pipeline	al Oft.	
Test Equipment	Make & model of Deadweight Tester	Serial #	Date Last Calibrated	
	Hake 6 Model of Chart Recorder Forboro	Serial #	Date Last Calibrated - 04-10-89	
	Make 4 Model of Temperature . Recorder Barton	Serial #	Date Last Calibrated 04-10-89	

Date	Time	Reco	resure rded by (V Recorder () Other GAUGE	Temperature Source of Readings [4] Pipe Wall [] Air [] Test Medium [] Other	Test Medium Change (+) Added (-) Drained
4-18-89	7;00 A	\$10	815	64	
	8:00	810	815	65	
	9:00	810	815	66	•
	10:00	810	815	66	
	11:00	820	825	72	
	12:00	830	835	78	
	1:00 P	1 820	825	79	12:30 PM
	2:00 3:00	820 820	825 825	80 82	
				Total Change of	-4-3 cals.

# FAILURES DURING TEST

	فتألف فأخفف والمهاب والمستحددات المستحد والمراجع والمستحدد		
L	Location	Cause	Disposition
$\overline{}$			
L			
			· · · · · · · · · · · · · · · · · · ·
·		1	

# CERTIFICATION

Pipeline Operator's Represer	Dow	Title	Date
Tom Petrovich		Const. Mgr.	04-18-89
Hydrostatic Testing Pirm's S	lepresentative	Title	Date
Person Witnessing Test for C	ertifying Firm	Title	Date
James Sumerix	Metco	Cert. Witness	04-18-89
Mest the	÷	Title	Date 5-1-85

NOTE: Test results must be sent to the Office of State Fire Marshal within 30 days of the hydrostatic test.

B-1-1487

27.

# 

42 in 19

	Srm #90-197	
PIPELINE DATA THAT THE PROPERTY OF THE PROPERT	Test Date 8-29-90	
Dow Chemical U.S.A.	Company conducting test if other than operator  Metco	
Kind of Test       Annual       Annual	] 3 Year [ ] 5 Year [ ] Other	
Styrene Pipeline		
Pipeline Location (mile post, street, station, e	etc)	
To: Watson Land fill		
Normal Product Transported Normal Styrene	al Operating Pressure P.S.I. at (location) 200#	
Maximum Operating pressure		

## PIPE DATA

Pipe O.D.	Wall Thickness.	Specification  Grade (SMYS)	Length of-Pipe Being Tested	Volume (Barrels)	and the second
3.500			10,162.22	91.4	
4.500		Grade B		103.72	
		( per owner )			35% -

 $a \in \mathbb{N}_{+} \subset \operatorname{ind}(\operatorname{cont}(x)) \subset \mathbb{N}_{+} \times \mathbb{N}_{+} \times$ 

## TEST DATA

Test Nedium	[X] Water     Petroleum	ilas Waive	Has Waiver been granted 7	
Location of	Pressure Recording Equipment	e8	Elevation2194	
Other Elevations	PipelineRigh Point	Pipelin	eLow Point	
Test Equipment	Make & Hodel of DWT Chandler Eng.	Serial   21397	Date Last Calibrated	
	Hake E Hodel of Chart Recorder Foxboro #11	Serial #	Date Last Calibrated C	
	Hake & Model of Temperature	Serial #	Date Last Calibrated in 1.3	

TEST DATA

Date	Time	Pressure Recorded by [* DWT — [* Recorder. [ Gauge   ] Other	Temperature Source of Readings [X Pipe Wall [] Air [] Test Medium [] Other	Test Medium Change (+) Added (-) Drained
8-29-90	6:30	404 405	72	
	7:30	404	da 190 - 71	
	8:30	407 . 410	73	
	9:30	417 420	75	
	10:30	427 430	78	
	11:30	437 440	86	
	12:30	441 450		
•	1:30	447	93	
	2:30	452 475	96 Total Change of	

## FAILURES DURING TEST.....

Location "1	Cause	Disposition
The state of the s		
The American	ter severe in a	

## CERTIFICATION

Pipeline Operator's Representative	Title	Date
L. Ruddick Dow Chemical	Project Manager	
Hydrostatic Testing Firm's Representative Jim Summerix Metco	Title Tester	Date 8-29-90
Person Witnessing Test for Certifying Firm Danny Broussard S.O.S. Engineering.	Title Test Cartifier	Date 8-29-90
Test Results Certified By	Title	Date

NOTE: Test results must be gent to the Office of State Fire Narshal within 30 days of the hydrostatic test.

[1] Hourly change shall not be in excess of either 10 gallons or the sum of one gallon and an amount computed at a rate in gallons per mile equivalent to 1/10 the of the nominal internal diameter of the pipe in inches (California Government Code Section 51014).

OFFICE OF STATE FIRE MARSHAL, PIPELINE SAFETY DIVISION CERTIFICATION OF PIPELINE HYDROSTATIC PRESSURE TEST SF1 # 91-208 IDATE OF TEST 11-5-91 THIS IS TO CERTIFY THAT THE PIPELINE OR SECTION OF, WAS HYDROSTATICALLY PRESSURE TESTED WITHIN THE FOLLOWING PROCEEDURE PIPELINE OPERATOR: DOW CHEMICAL CO. OPERATOR REPESENTITIVE: LYNN RUDDICK COMPANY TESTING PIPELINE: METCO INC. COMPANY WITNESSING TEST : METCO INC. PERSON WITNESSING TEST: JAMES SUMERIX PIPELINE NAME OR I.D. NUMBER: 4" STYREN LINE CFM # TESTED FROM: L.B. TERMINAL 305 NEW DOCK ST. CITY OF: LONG BEACH-TERMINAL IS. TESTED TO: TORR. PLANT 305 CRENSHAW BLVD. ICITY OF: TORRANCE LEN. TESTED: 11.71 MILESIDIA. 3"&4" | WALL THICKNESS: .250 GRADE: "B" VOL. IN BBLS. 804 TEST MEDIUM: WATER ELEV. HIGH. 70' LOW. O' PRESSURE RECORDER MAKE: CLIF MOCK SERIAL # 2856 TEMPERATURE RECORDER MAKE: BARTON ISERIAL # 8 DEADWEIGHT TESTER MAKE: CHANDLER SERIAL # 23384 TIME PRESS. REC. TEMP. REC : //// + GALS - 6ALS. !- 0ZS. D.W.T. + OZS. 12 01P.M.1820-PSI 90-F 820-PSI. 1111 1:00 P (1. 620-PSI. . 194-F 820-PSI. 11115 2:00 F M | 620-PSI. 98-F 1820-PSI. 1111: 3:00 P.M. 815-PSI. 96-F 812-PSI. 1//// 4:00 P.M. (800-PS). 190-F 803-PSI. 11111 1/// 5:00 PM. 1800-PSI. 86-F 796-PSi. 6:00 PM | 800-PSI. 81-F 788-PSI. 1111: 7:00 P.M | 795-PSI. 77-F 781-PSI. 11111 8:00 P.M. 795-PSI. 174-F 776-PSI. //// 6.00 P.M. 820-PSI. 74-F 820-PSI. 11111 10 1111 1111 11111 CHANGES IN VOLUME DURING TEST. 10 0 0i LENGTH OF TEST: 8-HOURS NET CHANGE IN VOLUME AFTER TEST. PLUS 10 GALLONS TEST CYCLE: ( ) REPLACEMENT (X)ANNUAL ()2-YEAR ( )5-YEAR ( ) OTHER NORMAL OPERATING PRESSURE: 300-PSI. MAXIMUM ALLOWABLE OPERATING PRESSURE: 776-PSI. COMMENTS; REPORT PREPARED BY: **DUSTY HILYAR** COMPANY: METCO EQUIP. CO INC. TIPE C. VICE PRECINENT.

ÉDM Services, Inc. 40 West Cochran, Suils 112 Simi Valley, California 93065 Phone: (805) 527—3300 FAX: (805) 583—1607

# California State Fire Marsha

7171 Bowling Drive, Suite 101 Secremento, Celifornia 9582 Phone: (916) 427—450

# **LEAK DATA FORM**

Pipeline Operating Company:	THE DOW CHE	MICAL COMPANY	
CSFM Pipeline Description:	COMBINATION 3'4'T	Leak Number:	0 10
CSFM Inspection Unit No.	130	CSFM No.:	R- 130-602
Questionnaire Completed By:	M. LUINNEN		
Date Data Collected:	6-4-91	Telephone:	LINDLEY RUDO LEK
Date of Leak	2-13-85	County in Which Leak Occurred	213-533-5239
Map Page	68	Map Coordinates	62
Interstate Line (Check)		Intrastate Line (Check)	
Common Carrier (Yes or No)	NO	SMSA (Yes of No)	×
Leak Within 500' of Rail Line?	YES	If Yes, Main (M) or Other (O)2	YES
What type of	component leaked?	(Check one and state year installe	1 0
Pipe	*	Longitudinal Weld	
Valve		Girth Weld	
Римр 🐃		Threaded Connection	
Welded Fitting		Bolted Connection	
Other (Specify)		Van Hende	1947/1950
Cause of t	eak? (Check one ar	id add any necessary comments)	1 13477 1850
EXCEITE COTTOSION		Internal Corrosion	
3rd Party Construction	X Marin Barrier	3rd Party - Train Derailment	
3rd Party = Farm Equipment		3rd Party - Other (Specify)	Toran And a
Equipment Malfunction		Human Operating Error	
Maintenance:		Design Flaw	
Other (Specify)			
Comments	PIN HOLE L	EAK AFTER DAMAGE TO	COATING
	IN AREA MI	SOME DRIDE TIME	COMING
Number of Human Fatalities	0	Number of Human Injuries	0
Property Damage (\$)	6000	Describe Property Damage	CLEAN UP
ANI) REPAIR			CLEAN UP
- 150-4040 - 10 - 10 - 10 - 10 - 10 - 10 - 1			
Type of Fluid Spilled	SHEENE	Spill Size (Barrels)	41
If leak \	was caused by dera	lment, complete this section	
The art of the state of the sta		S. Unio AM or Other to the	
Eeak During Derallment		Leak After Derailment	
Comments			
Type of Coating			
Date of Last C.P. Survey	COAL TAR	Type of C.P. System	1.C.
	1/85	Pipe Description at Leak	UNKNOWY
Pipe Diameter (Inches)		Wall Thickness (Inches)	0.230 Ave
Pipe Diameter (Inches)			
Date Pipe Installed	1947 /1950	Last Internal Inspection	HONE
Date Pipe Installed %	1947 /1950	Last Internal Inspection Date of Last Hydrotest	NONE.
Date Pipe installed Pipe Cover (inches) Nearest Block Valve (mi.)	1947 /1950 24" 0.6	Last Internal Inspection  Date of Last Hydrotest  Nearest Block Valve (mi.)	4/84
Date Pipe Installed %	1947 /1950	Last Internal Inspection Date of Last Hydrotest	

\* EDM Services, Inc.
40 West Cochran, Suite 112
Simi Valley, Celifornia 93085
Phone: (805) 527-3300 FAX: (805) 583-1807

# California State Fire Marsha

7171 Bowling Drive, Suite 101 Secremento, California 9582 Phone: (916) 427-450

# **LEAK DATA FORM**

Pipeline Operating Company:	THE DOW CHEN	lical company	
CSFM Pipeline Description:	COMBINATION 3'4"T.1	Leak Number:	R-130-004
CSFM Inspection Unit No.	130	CSFM No.:	072
Questionnaire Completed By:	M. LUNNEN		LINDLEY RUDDICK
Date Data Collected:	6-4-91	Telephone: Telephone:	213-533-5239
Date of Leak	7-18-BS		Los ANCELES
Map Page	68	Map Coordinates	E2
Interstate Line (Check)		Intrastate Line (Check)	×
Common Carrier (Yes or No)	NO	SMSA (Yes of No)	YES
Leak Within 500' of Rail Line?	YES	If Yes, Main (M) or Other (O)?	C
What type of c	component leaked?	(Check one and state year installed	
Pipe.	× Electrical States	Longitudinal Weld	
Valve ( A.		Girth Weld	
Pump ***		Threaded Connection	Established Comment
Welded Fitting		Botted Connection	6 (1384) (1886)
Other (Specify)		Year Item Installed	1947/1950
중요한다. Both (ind Cause of I	eak? (Check one and	add any necessary comments)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
External Corrosion		Internal Corrosion	
- 3rd Party - Construction	X PROPERTY OF THE PARTY OF THE	3rd Party - Train Derailment	
3rd Party — Farm Equipment		3rd Party - Other (Specify)	
Equipment Malfunction		Human Operating Error	
Maintenance.		Design Flaw	
Other (Specify)			
* * * * * * * * * * * * * * * * * * *			
Comments	PIN HOLE LED	K AFTER DAMAGE TO	COATING
DUBING CONSTRUCTION	IN AREA AT	some prior time	COATING
OUDING CONSTRUCTION  * Number of Human Fatalities			COATING
Number of Human Fatalities Property Damage (\$)	O AREA AT	SOME PHOS TIME	0
OUDING CONSTRUCTION  * Number of Human Fatalities	O AREA AT	SOME PRIOR TIME  Number of Human Injuries	
Number of Human Fatalities Property Damage (\$)	IN APER AT	SOME PRIOR TIME  Number of Human Injuries  Describe Property Damage	0
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled	IN APER AT  O  2000  STYRENE	SOME PRIOR TIME  Number of Human Injuries  Describe Property Damage  Soll Size (Barrels)	CLEAPUP
Number of Human Fatalities Property Damage (\$)  AUD REPAIR.  Type of Fluid Spilled  If leak y	IN APER AT  O  2000  STYRENE	SOME PRIOR TIME  Number of Human Injuries  Describe Property Damage  Soll Size (Barrels)	CLEAPUP
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v	N ADER AT  O  2000  STYRENE  Was caused by derail	Number of Human Injuries  Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.	O CLEAPUP 41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  Train Operator  Leak During Derailment	N ADER AT  O  2000  STYRENE  Was caused by derail	Number of Human Injuries  Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.	O CLEAPUP
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v	N ADER AT  O  2000  STYRENE  Was caused by derail	SOME PRIOR TIME  Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.	O CLEAPUP
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  Train Operator  Leak During Derailment	N ADER AT  O  2000  STYRENE  Was caused by derail	Number of Human Injuries  Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.	O CLEAPUP
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  Train Operator  Leak During Derailment  Comments	IN ADER AT  O  2000  STYRENE  Was caused by derail	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derallment	O CLEAPUP 41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak to the Comments  Type of Coating	O 2000  STYRENE Was caused by derail	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment	O CLEAPUP 41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Comments  Type of Coating  Date of Last C.P. Survey	COAL TAC	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Pipe Description at Leak	CLEANUP  41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Leak During Derailment  Comments  Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)	COAL TAC	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Pipe Description at Leak  Wall Thickness (inches)	CLEAPUP  41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Leak During Detailment  Comments  Date of Last C.P. Survey  Pipe Diameter (triches)	COAL TAR A/BS 4"	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Wall Thickness (Inches)  Last Internal Inspection	CLEANUP  41
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Leak During Derailment  Comments  Date of Last C.P. Survey  Pipe Diameter (Inches)  Date Pipe Installed  Pipe Cover (Inches)	COAL TAR 4/85 4" 1947/1950 24"	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Wall Thickness (Inches)  Last Internal Inspection  Date of Last Hydrotest	I.C.  UNKNOWN  O, 240
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Leak During Derailment  Comments  Type of Coating  Date of Last C.P. Survey  Pipe Diameter (inches)  Pipe Cover (Inches)  Nearest Block Valve (ml.)	COAL TAC  4/85 4" 1947/1950 24" 0.6	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Pipe Description at Leak  Wall Thickness (Inches)  Last Internal Inspection  Date of Last Hydrotest  Nearest Block Valve (mi.)	O CLEAPUP  I.C.  UNKNOWN  O, 240  NONE
Number of Human Fatalities Property Damage (\$)  AUD REPAIR  Type of Fluid Spilled  If leak v  Train Operator  Leak During Derailment  Comments  Date of Last C.P. Survey  Pipe Diameter (Inches)  Date Pipe Installed  Pipe Cover (Inches)	COAL TAR 4/85 4" 1947/1950 24"	Number of Human Injuries  Describe Property Damage  Spill Size (Barrels)  ment, complete this section.  Main (M) or Other (O) Line  Leak After Derailment  Type of C.P. System  Wall Thickness (Inches)  Last Internal Inspection  Date of Last Hydrotest	I.C.  UNKNOWN  O, 240  NONE  3/85

. . . . . . . .

;# 4/ 4

EDM Services, Inc. 40 West Cochran, Suite 112 Simi Valley, California 83065 Phone: (805) 527-3300 FAX: (805) 583-1607

# California State Fire Marsha

7171 Bowling Drive, Suite 1010 Secremente, California 9582: Phone: (916) 427-4500

# **LEAK DATA FORM**

Pipeline Operating Company:	THE DOW CHEN	MICOL COMPANY	
CSFM Pipeline Description:	COMBINATION 3'4"T.I	Leak Number:	D = 124 . 00 C
CSFM Inspection Unit No.	130	CSFM No.:	R-130-005
Questionnaire Completed By:	M. LUUUEN	Operating Company Rep.	LINDLEY RUDGIER
Date Data Collected:	6-4-91	Telephone:	213-533-5239
Date of Leakers (1911)	2-15-86	County In Which Leak Occurred	
Map Page	68	Map Coordinates	LOS ANGELES
Interstate Line (Check)	114-7	Intrastate Line (Check)	
Common Carrier (Yes or No)	NO	SMSA (Yes of No)	×
Leak Within 500' of Rail Line?	YES	If Yes, Main (M) or Other (O)?	YES
What type of c	omponent leaked?	(Check one and state year installed	
Pipe	× Marie Constitution	Longitudinal Weld	
Valve		Girth Weld	
Pump		Threaded Connection	**************************************
Welded Fitting:			
Other (Specify)	<u> </u>	Year item installed:	1947/1950
Cause of le	aak? (Check one and	add any necessary comments)	15 . 17 (355
External Corrosion		Internal Corrosion	
3rd Party Construction	×	3rd Party - Train Derailment	
3rd Party - Farm Equipment		3rd Party - Other (Specify)	
Equipment Malfunction		Human Operating Error	
Maintenance		Design Flaw	
Other (Specify)			
Comments	PIN HOLE LED	K AFTER DAMAGE TO	COATING
DUBING CONSTRUCTION IN		ONE PRIOR TIME	
Number of Human Fatalities	0	Number of Human Injuries	0
Property Damage (\$)	\$5°00	Describe Property Damage	
LLEAN UP (R)	EPLACED LINE	QUE TO FREQUENT !	EAKS LINE
KEPLHUED 9-86	LOST \$50 000	_ 5 <i>EE R-130R en</i> ths	
Type of Fluid Spilled	STAR ENE	Spill Circ./Descript	
If leak v	vas caused by derail	ment, complete this section.	
The second of th	•	際窓 Main (M) of Other (O) Line (in a line in	
Leak During Derallment		Leak After Derailment	
Comments			and discontinuous positions and last
Type of Coating		Type of C.P. System	1.C.
Type of Coating	1/86	Pipe Description at Leak	-
Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)	1/86 4"	Pipe Description at Leak Wall Thickness (Inches)	MAKHEMA
Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)  Date Pipe Installed	1/86 4" (947/1950	Pipe Description at Leak Wall Thickness (Inches) Last Internal Inspection	-
Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)  Date Pipe Installed  Pipe Cover (Inches)	1/86 4" (947/1950 24"	Pipe Description at Leak Wall Thickness (Inches) Last Internal Inspection Date of Last Hydrotest	V 240 IY NXADWN
Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)  Pipe Cover (Inches)  Nearest Block Valve (mi.)	1/86 4" (947/1950 24" 0.6	Pipe Description at Leak Wall Thickness (Inches) Last Internal Inspection Date of Last Hydrotest Nearest Block Valve (ml.)	NONE V SHO IY NKHOWN
Type of Coating  Date of Last C.P. Survey  Pipe Diameter (Inches)  Date Pipe Installed  Pipe Cover (Inches)	1/86 4" (947/1950 24" 0.6	Pipe Description at Leak Wall Thickness (Inches) Last Internal Inspection Date of Last Hydrotest	NONE V SHO IY NYKHOWN

